Math 2   Name _____

Graphing Quadratics Review   Date _____ Per ____

Graph each quadratic. Make sure to label all key components.

  1. $f(x) = -(x + 2)(x - 4)$

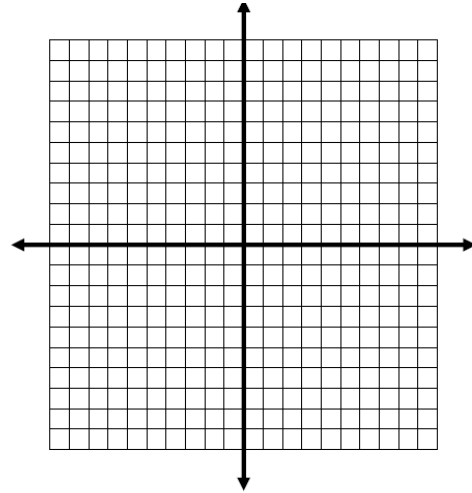Maximum or Minimum

Vertex _____   y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

                            Intervals of Increasing

                            Intervals of Decreasing

  2. $f(x) = \frac{1}{2}x^2 + 3x + 4$

       Maximum or Minimum
       Vertex _____   y – intercept _____
       AOS _____   Domain_____
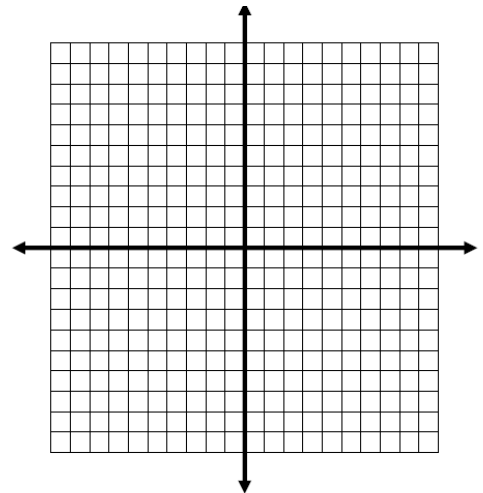   x – intercepts _____ Range _____
                                Intervals of Increasing

                                Intervals of Decreasing

3. $f(x) = -(x+3)^2 + 4$

    Maximum or Minimum
    Vertex _____   y – intercept _____
    AOS _____   Domain_____
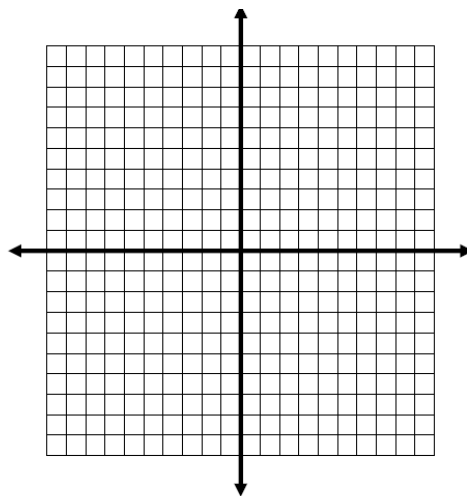   x – intercepts _____   Range _____

                                   Intervals of Increasing

                                   Intervals of Decreasing

4. $f(x) = \frac{1}{2}(x-5)(x+1)$
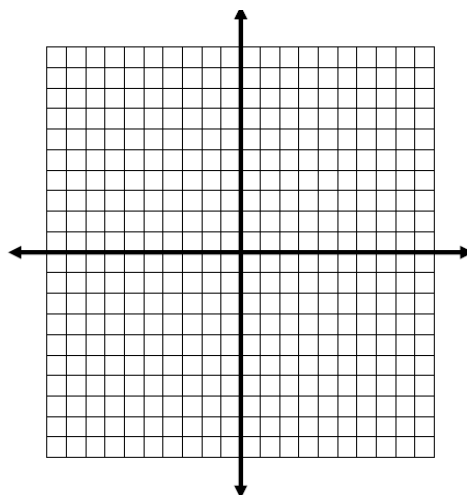
    Maximum or Minimum
    Vertex _____   y – intercept _____
    AOS _____   Domain_____
    x – intercepts _____   Range _____
                                   Intervals of Increasing

                                   Intervals of Decreasing

5. $f(x) = -x^2 - 4x + 5$
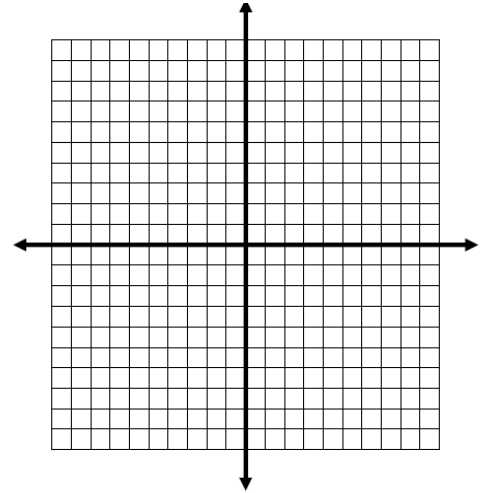
Maximum or Minimum

Vertex _____	y – intercept _____
AOS _____	Domain _____
x – intercepts _____	Range _____

Intervals of Increasing

Intervals of Decreasing

6. $f(x) = 2(x - 3)^2 - 2$

Maximum or Minimum

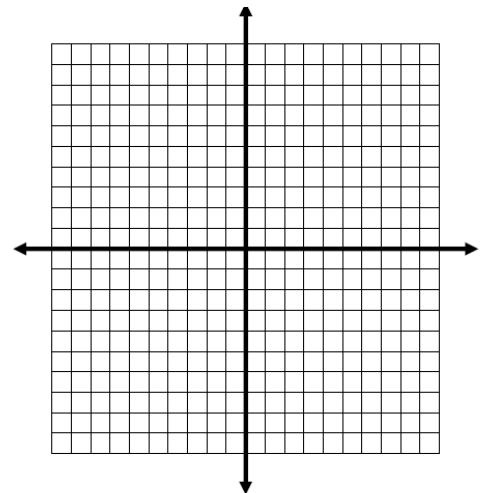|	
Vertex _____	y – intercept _____
AOS _____	Domain _____
x – intercepts _____	Range _____

Intervals of Increasing

Intervals of Decreasing

Write each equation in vertex form. Give the vertex and the y – intercept

7. $f(x) = x^2 - 4x - 12$

8. $g(x) = x^2 + 5x + 6$

Write the function in vertex form then graph the equation.

9. $f(x) = x^2 - 8x + 15$

Maximum or Minimum

Vertex _____

AOS _____

x – intercepts _____

y – intercept _____

Domain_____

Range _____

Intervals of Increasing

Intervals of Decreasing